

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/593,790
Source: IFW
Date Processed by STIC: 10/3/06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 10/03/2006

PATENT APPLICATION: US/10/593,790

TIME: 08:44:17

Input Set : A:\NEB-241-PUS.ST25.txt

Output Set: N:\CRF4\10032006\J593790.raw

3 <110> APPLICANT: New England Biolabs, Inc.
 4 Morgan, Richard
 5 Wilson, Geoffrey
 6 Lunnen, Keith
 7 Heiter, Daniel
 8 Benner, Jack
 9 Nfenfou, Celine
 10 Picone, Stephen
 12 <120> TITLE OF INVENTION: A Novel Modular Type II Restriction Endonuclease, CspCI, and
 the Use of Modular Endonucleases for Generating Endonucleases with
 13 New Specificities
 14
 16 <130> FILE REFERENCE: NEB-241-PUS
 C--> 18 <140> CURRENT APPLICATION NUMBER: US/10/593,790
 C--> 18 <141> CURRENT FILING DATE: 2006-09-25
 18 <150> PRIOR APPLICATION NUMBER: 60/555,796
 19 <151> PRIOR FILING DATE: 2004-03-24
 21 <150> PRIOR APPLICATION NUMBER: PCT/US05/09824
 22 <151> PRIOR FILING DATE: 2005-03-23
 24 <160> NUMBER OF SEQ ID NOS: 49
 26 <170> SOFTWARE: PatentIn version 3.2
 28 <210> SEQ ID NO: 1
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 30 <212> TYPE: DNA
 31 <213> ORGANISM: unknown
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 38 <221> NAME/KEY: misc_feature
 39 <222> LOCATION: (12)..(12)
 40 <223> OTHER INFORMATION: n=a,c, g or t
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 59 <222> LOCATION: (14)..(14)
 60 <223> OTHER INFORMATION: n=a,c, g or t

(pg. 6)

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65 g 61
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121 ttttgctcat ccccttttaa ttcaacgac atctgctgaa aagtcagacc ctcacgatag 180
123 tcagaggcca gcttctgttc ctcagatgcc agccctttca gatcgggtctt acccgtctct 240
125 agttgttggg ttgccccatc aagagtgcgg cgtttttctg ccaattgagt agcttttaca 300
127 cccgtcagat cgatatatct ggcatacaat gccgaagtaa aatttcggac aaaatcatta 360
129 aatgcataca gcccaataaa cgttgagata agttcagctt gtcttgccgg ggccagcgcc 420
131 gctattcttg agaagttgtc aattcgggtt ttttcaaaa agcaaaagcg gtgctgtgct 480
133 tcgttatgct caattgctaa atcctgtcct tgctctccta cgccagtaat tacaggtgca 540
135 gaaaactgat cgacatgtgc atttctaaaa tagtcgggtt gattacgaaa acgcttacta 600
137 tcagcctcag ctacgctacc cagtaatgta tattcaagcg cttcgcagaa actggacttc 660
139 ccggtaccat tggggccata aatcagcacc agacgcgaat ccaggtcaaa ttctctctgt 720
141 ctggcaaatc ctctgaacgg tccaacggac aacctcctga gtcgattgaa agtggagacg 780

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147	ttatccagat	tatcccatat	aagattccgc	atttttctga	catcaccggg	tatatctgct	960
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151	cttgctgttt	tctcacgtta	taagacaatg	ataaaaagata	cactcttagc	taacgtattc	1080
153	acgtgatctg	tagatcaatt	atcttcagtt	ccgctctcaa	gctgaactga	accgggatga	1140
155	agacgggatg	gcgcttgcca	cactagtaca	ggtgtattac	taaaaaaccg	aaaggatttc	1200
157	gataaagccg	attacaacgc	ggttggtggc	aacaccgaag	ccacgctcgg	cgatgaactg	1260
159	gtggcaaga	aagaaatata	ggtccgccc	gagtaaactg	ccaccttcat	caagccgatg	1320
161	gatgagcagg	cgtaatatgt	cgcagtgtt	gcgaagcgcc	gtactccgga	tgtgcgcaag	1380
163	aacgactgac	gtctggtact	gagccgtgac	gatctggcct	ctgatgggcc	cgcattaatg	1440
165	agatggtaaa	tcctcactaa	tattgaaggc	aaaaaataaa	ggtctccaaa	atcgactctt	1500
167	gtaaagaggg	ttgcgaggcc	ctcctgcact	ctagccatag	ttcggaattg	gtcggtaaaa	1560
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171	aacagaatcc	ttagttcgag	accagctacg	gacatttggc	tactacgaac	cggacaaccg	1680
173	catttctgta	gaggagcaaa	agtccgagat	tgtcaagatt	aagggtttgc	tttcaaaagc	1740
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177	tactgcattc	ctgatagtgt	tggagtgcga	gccggatgtg	aaaaagcacg	agagcccaag	1860
179	ccgtgataag	ccggtagact	atgcggtgga	tggcgttctc	cactacgcca	gacacctagc	1920
181	caagcactat	accgtattgg	cgggtggtgt	gagcggcagc	acggcaagtt	ctatgaaggt	1980
183	gtccaacttc	cttgctgctg	cgggtaccac	ggatgtgaag	gcgctggtca	acgagagtaa	2040
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231	tcaaagctac	gcgctattta	aactatttgg	tcaaggcagt	agccagtcgg	aagtgaaggg	3480
233	ggcaacggat	gccgaagatt	aacgaccttt	ttcatctgga	gtacgggtcac	agcctggagt	3540
235	tgaaccggct	agagcaatcc	acagcagccg	atgccgtcaa	cttcggttga	cgggcagcta	3600
237	ggaacaatgg	agtcaccgca	cgcgtggctc	ccctcccaaa	cttgaaaccg	gcagccgcag	3660
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Output Set: N:\CRF4\10032006\J593790.raw

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241 gtcacctactt ttgtggccgc gatgtgatgg tgctgacccc caagaagcac atgacagacc 3780
243 aagaaaagct gtgggtgggtc atgtgcatca cagccaaccg ttcccgcttt ggatttggtc 3840
245 gccaaagctaa tcggacgcta aaggacttga atctgcctgc gccccaaaaa actccaagct 3900
247 gggtgcatac agcgaacccc gatgcctacc aagggtgtcag gtcccccgca agtgttcatc 3960
249 cagtcggcac gctggctgtg agcaactgga aggccttcat tcttcaagac ttgtttacca 4020
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253 gcgcacgga cacttccaac ggcgttactg cgcacatcgg gcaaaaacca atccacgagg 4140
255 gcggcaccat cagcgtcaca tatgacggtt caatagctga agcgttttac cagccctccc 4200
257 ctttttgggc atcggatgct gtgaacgtgc tctatcccaa gggtttcaca ctacaccgg 4260
259 ccactgcctt gtttatctgc gcaatcatca ggatggagaa atatcgcttc aactatggcc 4320
261 gaaaatggca cttagagcgt atgcgagaga cagttatcag gttaccagct actgcaacag 4380
263 gtgcaccaga ttgggacttt atggagaaat acatcaaaac ttgcccctat agctcgcagt 4440
265 tgcaataatc atggctgatt tcctaaatct cctgccgcac ctacgggtat tgcattgtca 4500
267 ggacggtggt gatcatcgct aggtggaggg ggaaagccgt gttttgctga ccgcttgccc 4560
269 ggctgcgggt gaaaagcctt cccattcagg gaaggcttta atcgagttat agatct 4616

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272 <210> SEQ ID NO: 6

273 <211> LENGTH: 1899

274 <212> TYPE: DNA

275 <213> ORGANISM: unknown

277 <220> FEATURE:

278 <223> OTHER INFORMATION: restriction and modification system of Citrobacter species

2144

280 <400> SEQUENCE: 6

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281 atggcgaacg aacgcaaaac agaatcctta gttcgagacc agctacggac atttggttac 60
283 tacgaaccgg acaacggcat ttctgtagag gagcaaaagt ccgagattgt caagattaag 120
285 ggtttgcttt caaaagcaag taagaacgcc aagggcaata ttggttatcc cgagttcatc 180
287 atctctaacc ggaaagatac tgcattcctg atagttgtgg agtgcaagcc ggatgtgaaa 240
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291 tacgccagac acctagccaa gcactatacc gtattggcgg tggctgtgag cggcacgacg 360
293 gcaagttcta tgaagggtgc caacttcctt gtgcctgcgg gtaccacgga tgtgaaggcg 420
295 ctggtcaacg agagtaattc ctcatgtgac gaattggtgc cttatgatga ctactaccgc 480
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303 ctacctgcag aagatgtgca ggaagcgtgg ctgacggcta tcaagaagga gctggacaaa 720
305 gcttctatcc ccaggccaa gaaggacacg atgctgcagc cgtatacgac gattgcgggt 780
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317 gccatgcaac acatgctcaa gaaggccgta acggacaaag agcgcaacga catcaagcaa 1140
319 aatcggtcca tcgggattga aaacaacccc aagatgtttg ccttggctgc cagcaacatg 1200
321 attctgcgtg gtgatggtaa ggctaacctg caccaggcca gttgctttga taatgcagt 1260
323 attgcggccg tgcagaagat gaagcccaac gtgggcacgc ttaaccccc gtattcgag 1320
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329 atgctggaag agctgatgaa gtaccactca ctggatgcgg tcatgtcaat gcccaggag 1500
331 ctgttttatc cagtgggcac ggtcacctgt gtcattggtc ggattgcggg tgtgccacat 1560
333 gagcaaatgt ccaagaagac atggtttggc tactggcgcg acgatggctt tgtgaaaacc 1620

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335 aagcataagg ggcgcacga catgaatggc acctggccag acatccgtga cccgatggatt 1680
337 gaaatgtatc gcaatcgca agtgcacgct ggcgagagca tcatgcagaa ggtaggcccc 1740
339 gatgatgaat ggtgcgctga agcctatatg gaaacggact actcagtgcg gactcagtc 1800
341 gactttgaga aggtcggtta aagctacgag ctattttaac tatttggtca aggcagtagc 1860
343 cagtccgaag tgaaaggggc aacggatgcc gaagattaa 1899

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346 <210> SEQ ID NO: 7

347 <211> LENGTH: 960

348 <212> TYPE: DNA

349 <213> ORGANISM: unknown

351 <220> FEATURE:

352 <223> OTHER INFORMATION: specificity subunit of Citrobacter species 2144

354 <400> SEQUENCE: 7

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355 atgccgaaga ttaacgacct ttttcatctg gactacggct acagccctgga gttgaaccgg 60
357 ctagagcaat ccacagcagc cgatgccgtc aacttcgttg gacgggcagc taggaacaat 120
359 ggagtcaccg cagcgtggc tccccctcca aacttgaaac cggcagccgc aggcaccatc 180
361 agcgtagcgc tgggagggca aggtggcgca ggagtcgcct tcctccaacc gcgtccctac 240
363 ttttgtggcc gcgatgtgat ggtgctgacc cccaagaagc acatgacaga ccaagaaaag 300
365 ctgtggtggg tcatgtgcat cacagccaac cgtttccgct ttggatttg tgcgaagct 360
367 aatcgagcgc taaaggactt gaatctgcct gcgccccaaa aaactccaag ctgggtgcat 420
369 acagcgaacc ccgatgccta ccaagggtgc aggtcccccg caagtgttca tccagtcggc 480
371 acgctggctg tgagcaactg gaaggctttc attcttcaag acttggttac catccgtaaa 540
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377 atcagcgtca catatgacgg ttcaatagct gaagcgtttt accagccctc cccatttttg 720
379 gcatcggtat ctgtgaacgt gctctatccc aagggtttca cactcacacc ggccactgcc 780
381 ttgtttatct gcgcaatcat caggatggag aaatatcgct tcaactatgg ccgaaaatgg 840
383 cacttagagc gtatgcgaga gacagttatc aggttaccag ctactgcaac aggtgcacca 900
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388 <210> SEQ ID NO: 8

389 <211> LENGTH: 632

390 <212> TYPE: PRT

391 <213> ORGANISM: unknown

393 <220> FEATURE:

394 <223> OTHER INFORMATION: predicted amino acid sequence of restriction modification system

395 of Citrobacter species 2144

397 <400> SEQUENCE: 8

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399 Met Ala Asn Glu Arg Lys Thr Glu Ser Leu Val Arg Asp Gln Leu Arg
400 1          5          10          15
403 Thr Phe Gly Tyr Tyr Glu Pro Asp Asn Gly Ile Ser Val Glu Glu Gln
404          20          25          30
407 Lys Ser Glu Ile Val Lys Ile Lys Gly Leu Leu Ser Lys Ala Ser Lys
408          35          40          45
411 Asn Ala Lys Gly Asn Ile Gly Tyr Pro Glu Phe Ile Ile Ser Asn Arg
412          50          55          60
415 Lys Asp Thr Ala Phe Leu Ile Val Val Glu Cys Lys Pro Asp Val Lys
416 65          70          75          80
419 Lys His Glu Ser Pro Ser Arg Asp Lys Pro Val Asp Tyr Ala Val Asp
420          85          90          95
423 Gly Val Leu His Tyr Ala Arg His Leu Ala Lys His Tyr Thr Val Leu

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 12 ✓
Seq#:2; N Pos. 14 ✓
Seq#:3; N Pos. 12 ✓
Seq#:4; N Pos. 14 ✓
Seq#:13; N Pos. 4,5,6,7,8,13,14,15,16,17,18,19,20,21,22,23,24,25 ✓
Seq#:14; N Pos. 4,5,6,7,8 ✓
Seq#:23; N Pos. 7 ✓
Seq#:29; N Pos. 5,6,7,8,9 ✓
Seq#:30; N Pos. 1,2,3,4,5,6,7,8,9,10,11,15,16,17,18,19,24,25,26,27,28,29,30 ✓
Seq#:30; N Pos. 31,32,33,34,35,36 ✓
Seq#:31; N Pos. 1,2,3,4,5,6,7,8,9,10,14,15,16,17,18,23,24,25,26,27,28,29,30 ✓
Seq#:31; N Pos. 31,32,33,34 ✓
Seq#:32; N Pos. 1,2,3,4,5,6,7,8,9,10,14,15,16,17,18,23,24,25,26,27,28,29,30 ✓
Seq#:32; N Pos. 31,32,33,34,35 ✓
Seq#:33; N Pos. 1,2,3,4,5,6,7,8,9,10,11,15,16,17,18,19,24,25,26,27,28,29,30 ✓
Seq#:33; N Pos. 31,32,33,34,35 ✓
Seq#:34; N Pos. 4,5,6,7,8,9 ✓
Seq#:35; N Pos. 4,5,6,7 ✓
Seq#:36; N Pos. 4,5,6,7,8 ✓
Seq#:37; N Pos. 5,6,7,8,9 ✓
Seq#:38; N Pos. 4,5,6,7,8 ✓
Seq#:39; N Pos. 4,5,6,7,8 ✓
Seq#:40; N Pos. 4,5,6,7,8 ✓
Seq#:41; N Pos. 4,5,6,7,8 ✓
Seq#:42; N Pos. 4,5,6,7,8 ✓
Seq#:43; N Pos. 4,5,6,7,8,9 ✓
Seq#:44; N Pos. 3,4,5,6 ✓
Seq#:45; N Pos. 4,5,6,7,8 ✓
Seq#:46; N Pos. 4,5,6,7,8,9 ✓
Seq#:47; N Pos. 5,6,7,8,9,10 ✓
Seq#:48; N Pos. 4,5,6,7,8 ✓
Seq#:49; N Pos. 3,4,5,6,7 ✓

VERIFICATION SUMMARY

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Input Set : A:\NEB-241-PUS.ST25.txt

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L:18 M:270 C: Current Application Number differs, Replaced Current Application No
L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:63 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:706 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:838 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:931 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:959 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:987 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:1015 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:1043 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:1061 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:1079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
L:1097 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
L:1115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:1143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:1161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
L:1179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:1197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:1215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:1230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
L:1250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
L:1265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:1280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
L:1295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:1320 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
L:1335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0